

MATERIAL SAFETY DATA SHEET

HAZARDS IDENTIFICATION

(ANSI Section 3)

Primary route(s) of exposure: Inhalation, skin contact, eye contact, ingestion. Effects of overexposure :

- Inhalation: Irritation of respiratory tract. Prolonged inhalation may lead to loss of appetite, mucous membrane irritation, fatigue, drowsiness, dizziness and/or lightheadedness, headache, uncoordination, nausea, vomiting, chest pain, coughing, central nervous system depression, intoxication, confusion, anesthetic effect or narcosis, difficulty of breathing, allergic response, asthmatic reaction, tremors, severe lung irritation or damage, liver damage, kidney damage, pulmonary edema, convulsions, pneumoconiosis, loss of consciousness, asphyxiation, death. Possible sensitization to respiratory tract.
- Skin contact: Irritation of skin. Prolonged or repeated contact can cause dermatitis, defatting, Skin contact may result in dermal absorption of component(s) of this product which may cause drowsiness, dizziness and/or lightheadedness, headache, uncoordination, nausea, blurred vision, central nervous system depression, confusion, tremors, convulsions.
- Eye contact: Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, blurred vision, tearing of eyes, redness of eyes.
- Ingestion: Ingestion may cause lung inflammation and damage due to aspiration of material into lungs, mouth and throat irritation, mucous membrane irritation, fatigue, drowsiness, dizziness and/or lightheadedness, headache, uncoordination, nausea, vomiting, diarrhea, gastro-intestinal disturbances, abdominal pain, central nervous system depression, intoxication, difficulty of breathing, convulsions, loss of consciousness, death.
- Medical conditions aggravated by exposure: Eye, skin, respiratory disorders lung disorders asthmalike conditions respiratory disorders

FIRST-AID MEASURES

(ANSI Section 4)

- Inhalation: Remove to fresh air. Restore and support continued breathing. Get emergency medical attention. Have trained person give oxygen if necessary. Get medical help for any breathing difficulty. Remove to fresh air if inhalation causes eye watering, headaches, dizziness, or other discomfort.
- Skin contact: Flush from skin with water. Then wash thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing before re-use.
- Eye contact: Flush immediately with large amounts of water, especially under lids for at least 15 minutes. If irritation or other effects persist, obtain medical treatment.

Ingestion: If swallowed, obtain medical treatment immediately.

FIRE-FIGHTING MEASURES

(ANSI Section 5)

- Fire extinguishing media: Dry chemical or foam water fog. Carbon dioxide. Closed containers may explode when exposed to extreme heat or fire. Vapors are heavier than air and may travel long distances to a source of ignition and flash back. Vapors can form explosive mixtures in air at elevated temperatures. Closed containers may burst if exposed to extreme heat or fire. May decompose under fire conditions emitting irritant and/or toxic gases.
- Fire fighting procedures: Water may be used to cool and protect exposed containers. Firefighters should use full protective clothing, eye protection, and self-contained breathing apparatus. Selfcontained breathing apparatus recommended.
- Hazardous decomposition or combustion products: Carbon monoxide, carbon dioxide, oxides of nitrogen, aerid fumes, phosphorous, toxic gases. Oxides of caleium

ACCIDENTAL RELEASE MEASURES

(ANSI Section 6)

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Steps to be taken in case material is released or spilled: Comply with all applicable health and environmental regulations. Eliminate all sources of ignition. Ventilate area. Ventilate area with explosion-proof equipment. Evacuate all unnecessary personnel. Place collected material in proper container. Complete personal protective equipment must be used during cleanup. Large spills - shut off leak if safe to do so. Dike and contain spill. Pump to storage or salvage vessels. Use absorbent to pick up excess residue. Keep salvageable material and rinse water out of sewers and water courses. Small spills - use absorbent to pick up residue and dispose of properly.

HANDLING AND STORAGE

(ANSI Section 7)

Handling and storage: Store below 100f (38c). Keep away from heat, sparks and open flame.

Other precautions: Use only with adequate ventilation. Do not take internally, Keep out of reach of children. Avoid contact with skin and eyes, and breathing of vapors. Wash hands thoroughly after handling, especially before eating or smoking. Keep containers tightly closed and upright when not in use. Avoid conditions which result in formation of inhalable particles such as spraying or abrading (sanding) painted surfaces. If such conditions cannot be avoided, use appropriate respiratory protection as directed under exposure controls/personal protection. Empty containers may contain hazardous residues. Ground equipment when transferring to prevent accumulation of static charge.

EXPOSURE CONTROLS/PERSONAL PROTECTION (ANSI Section 8)

- Respiratory protection: Control environmental concentrations below applicable exposure standards when using this material. When respiratory protection is determined to be necessary, use a NIOSH/MSHA (Canadian z94.4) Approved clastomeric sealing- surface facepiece respirator outfitted with organic vapor cartridges and paint spray (dust/mist) prefilters. Determine the proper level of protection by conducting appropriate air monitoring. Consult 29CFR1910.134 For selection of respirators (Canadian z94.4).
- Ventilation: Provide dilution ventilation or local exhaust to prevent build-up of vapors. Use explosionproof equipment.
- Personal protective equipment: Eye wash, safety shower, safety glasses or goggles. Impervious gloves, impervious clothing, face shield.

STABILITY AND REACTIVITY

(ANSI Section 10)

Under normal conditions: Stable see section 5 fire fighting measures

Materials to avoid: Oxidizers, acids, reducing agents, bases, halogens, mineral acids. Nitrates. Styrene monomer

Conditions to avoid: Elevated temperatures, contact with oxidizing agent, sparks, open flame, ignition

Hazardous polymerization: Will not occur

TOXICOLOGICAL INFORMATION

(ANSI Section 11)

Supplemental health information: Contains a chemical that is moderately toxic by inhalation. Notice - reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Other effects of overexposure may include toxicity to lungs, central nervous system.

Carcinogenicity: Contains crystalline silica which is considered a hazard by inhalation. IARC has classified crystalline silica as carcinogenic to humans (group 1). Crystalline silica is also a known cause of silicosis, a noncancerous lung disease. The national toxicology program (NTP) has classified crystalline silica as a known human carcinogen. The international agency for research on cancer (IARC) has classified carbon black as possibly carcinogenic to humans (group 2b) based on sufficient evidence in animals and inadequate evidence in humans. The international agency for research on cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (group 2b) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. In a 2 year inhalation study conducted by the national toxicology program (NTP), ethylbenzene vapor at 750 ppm produced kidney and testicular tumors in rats and lung and liver tumors in mice. Genetic toxicity studies showed no genotoxic effects. The relevance of these results to humans is not known. The international agency for research on cancer (fARC) has classified cobalt and certain cobalt compounds as possibly carcinogenic to humans (group 2b). Injection of metallic cobalt, cobalt alloys, and certain cobalt compounds has resulted in the development of localized tumors in laboratory animals.

Reproductive effects: High exposures to xylene in some animal studies, often at maternally toxic levels, have affected embryo/fetal development. The significance of this finding to humans is not known.

Mutagenicity: No mutagenic effects are anticipated Teratogenicity: No teratogenic effects are anticipated

ECOLOGICAL INFORMATION

(ANSI Section 12)

No ecological testing has been done by ICI paints on this product as a whole.

DISPOSAL CONSIDERATIONS

(ANSI Section 13)

Waste disposal: Dispose in accordance with all applicable regulations. Avoid discharge to natural waters.

REGULATORY INFORMATION

(ANSI Section 15)

As of the date of this MSDS, all of the components in this product are listed (or are otherwise exempt from listing) on the TSCA inventory. This product has been classified in accordance with the hazard criteria of the CPR (controlled products regulations) and the MSDS contains all the information required by the CPR.

Physical Data

(ANSI Sections 1, 9, and 14)

Product Code	The Description		VOC gr. / ltr.	% Volatile by Volume	Flash Point	Boiling Range	HMIS	DOT, proper shipping name				
1516-0100	ultra-hide alkyd semi-gloss interior wall & trim enamel, white	10.48	375.45	47.92	105 f	277-415	*320	paint, combustible liquid, UN 1263, PGIII				
1516-0110	ultra-hide alkyd semi-gloss interior wall & trim enamel - white tint base	10.34	363.95	46.47	105 f	277-415	*320	paint, combustible liquid, UN 1263, PGIII				
1516-0300	ultra-hide alkyd semi-gloss interior wall & trim enamel - intermediate tint base	9.75	370.18	47.26	105 f	277-415	*320	paint, combustible liquid, UN 1263, PGIII				
1516-0400	ultra-hide alkyd semi-gloss interior wall & trim enamel - deep tint base	9.01	363.47	46.57	105 f	277-415	*320	paint, combustible liquid, UN 1263, PGIII				
1516-0500	ultra-hide alkyd semi-gloss interior wall & trim enamel, accent base	9.04	366.22	46.87	105 f	180-402	*320	paint, combustible liquid, UN 1263, PGIII				
1516-1000	ultra-hide alkyd semi-gloss interior wall & trim enamel - white-high hiding	10.48	375.93	48.02	105 f	277-415	*320	paint, combustible liquid, UN 1263, PGIII				
1516-1020	ultra-hide alkyd semi-gloss interior wall & trim enamel - antique white	10.49	375.57	47.98	105 f	277-415	*320	paint, combustible liquid, UN 1263, PGIII				
1516-7460	ultra-hide alkyd semi-gloss interior wall & trim enamel, architectural brown	9.58	361.51	46.25	105 f	180-402	*320	paint, combustible liquid, UN 1263, PGIII				

Ingredients

Product Codes with % by Weight (ANSI Section 2)

Chemical Name	Common Name	CAS. No.	1516-0100	1516-0110	1516-0300	1516-0400	1516-0500	1516-1000	1516-1020	1516-7460
benzene, ethyl-	ethylbenzene	100-41-4			.1-1.0					
limestone	limestone	1317-65-3	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
benzene, dimethyl-	xylene	1330-20-7	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0
iron oxide	iron oxide	1332-37-2								1-5
kaolin	clay	1332-58-7	1-5	1-5				1-5	1-5	
carbon black	carbon black	1333-86-4								1-5
titanium oxide	titanium dioxide	13463-67-7	10-20	10-20	10-20	1-5		10-20	10-20	
hexanoic acid, 2-ethyl-, cobalt(2+) salt	cobalt alkanoate	136-52-7	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0
quartz	quartz	14808-60-7	.1-1.0	.1-1.0	.1-1.0			.1-1.0	.1-1.0	.1-1.0
c.i. pigment yellow 42	yellow iron oxide	51274-00-1					I			1-5
ethanol	ethyl alcohol	64-17-5								.1-1.0
naphtha (petroleum), heavy alkylate	heavy solvent naphtha	64741-65-7	5-10	5-10	5-10	5-10		5-10	5-10	
distillates (petroleum), hydrotreated light	hydrotreated light distillate	64742-47-8					1-5			1-5
solvent naphtha (petroleum), medium aliphatic	medium aliphatic solvent naphtha	64742-88-7	10-20	10-20	10-20	10-20	5-10	10-20	10-20	5-10
fatty acids, tall oil, polymers with glycerol, pentaerythritol and phthalic anhydride	alkyd resin	66070-62-0					10-20			10-20
ceramic materials and wares, chemicals	calcined kaolin clay	66402-68-4				5-10	5-10			5-10
fatty acids, tall-oil, polymers with isophthalic acid and pentaerythritol	alkyd resin	67746-05-8		1-5		5-10	5-10			5-10
fatty acid, c18-unsaturated, dimers, polymers with ethylenediamine, pentaerythritol, phthalic anhydride and tall-oil fatty acids	alkyd resin	68604-9 5-5	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20
benzene	benzene	71-43-2			.011	.011	.011			.011
lecithins	lecithin	8002-43-5			1-5					

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Ingredients (Continued)

Product Codes with % by Weight (ANSI Section 2)

Chemical Name	Common Name	CAS. No.	1516-0100	1516-0110	1516-0300	1516-0400	1516-0500	1516-1000	1516-1020	1516-7460
stoddard solvent	mineral spirits	8052-41-3	5-10	5-10	10-20	10-20	20-30	5-10	5-10	10-20
benzene,1,2,4-trimethyl-	pseudocumene	95-63-6	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0	.1-1.0
long oil alkyd resin	long oil alkyd resin	Sup. Conf.	10-20	10-20	10-20	10-20		10-20	10-20	

Chemical Hazard Data

(ANSI Sections 2, 8, 11, and 15)

			ACGIH-TLV			OSHA-PEL				S.R.	S2	S3	00]				
Common Name	CAS. No.	8-Hour TWA	STEL	С	S	8-Hour TWA	STEL	С	S	Std.	32	33	CC	Н	М	N		0
ethylbenzene	100-41-4	100 ppm	125 ppm	not est.	not est.	100 ppm	not est.	not est.	not est.	not est.	n	У	У	У	n	n	У	n
limestone	1317-65-3	10 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
xylene	1330-20-7	100 ppm	150 ppm	not est.	not est.	100 ppm	not est.	not est.	not est.	not est.	n	У	y	У	n	n	n	n
iron oxide	1332-37-2	5 mg/m3	not est.	not est.	not est.	10 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
clay	1332-58-7	2 mg/m3	not est.	not est.	not est.	5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
carbon black	1333-86-4	3.5 mg/m3	not est.	not est.	not est.	3.5 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	У	n
titanium dioxide	13463-67-7	10 mg/m3	not est.	not est.	not est.	10 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
cobalt alkanoate	136-52-7	.02 mg/m3	not est.	not est.	not est.	.05 mg/m3	not est.	not est.	not est.	not est.	n	V	n	V	n	n	n	n
quartz	14808-60-7	.05 mg/m3	not est.	not est.	not est.	0.1 mg/m3	not est.	not est.	not est.	not est.	n	n	n	'n	n	V	V	n
yellow iron oxide	51274-00-1	5 mg/m3	not est.	not est.	not est.	10 mg/m3	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
heavy solvent naphtha	64741-65-7	100 ppm	not est.	not est.	not est.	500 ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
hydrotreated light distillate	64742-47-8	100 ppm	not est.	not est.	not est.	100 ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
medium aliphatic solvent naphtha	64742-88-7	not est.	not est.	not est.	not est.	500 x ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
calcined kaolin clay	66402-68-4	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n
benzene	71-43-2	.5 ppm	2.5 ppm	not est.	not est.	1 ppm	5 ppm	not est.	not est.	not est.	n	Īv	v	V	n	v	v	y
lecithin	8002-43-5	not est.	not est.	not est.	not est.	not est.	not est.	not/est.	not est.	not est.	n	'n	ń	'n	n	'n	n	ń
mineral spirits	8052-41-3	100 ppm	not est,	not est.	not est.	500 ppm	not est.	not est.	not est.	not est.	n	n	n	n	n	n	n	n

Footnotes:

C=Ceiling - Concentration that should not be exceeded, even instantaneously.

S=Skin - Additional exposure, over and above airborn exposure, may result from skin absorption. n/a=not applicable not est=not established CC=CERCLA Chemical ppm=parts per million mg/m3=milligrams per cubic meter Sup Conf=Supplier Confidential S2=Sara Section 302 EHS S3=Sara Section 313 Chemical S.R.Std.=Supplier Recommended Standard H=Hazardous Air Pollutant, M=Marine Pollutant P=Pollutant, S=Severe Pollutant Carcinogenicity Listed By: N=NTP, I=IARC, O=OSHA, y=yes, n=no